

Title (en)
COMPRESSOR MOTOR AND COMPRESSOR

Title (de)
KOMPRESSORMOTOR UND KOMPRESSOR

Title (fr)
MOTEUR DE COMPRESSEUR ET COMPRESSEUR

Publication
EP 2073350 A4 20140115 (EN)

Application
EP 07829432 A 20071009

Priority
• JP 2007069694 W 20071009
• JP 2006276080 A 20061010

Abstract (en)
[origin: EP2073350A1] A rotor 6 includes a rotor core 610, and a plurality of magnets 620 arrayed on the rotor core 610 in its circumferential direction at center angles of equal intervals. Given an axial length L of the rotor core 610, a radial length D of the rotor core 610, and a thickness t of the magnets 620, the following relationships are satisfied: $L/D < 0.7$, and $t > (1 \times K \times) / (L \ 1.5 \times D \times P)$ (wherein P is the number of poles, K is 100000, and N is a factor that depends on the output of the compressor). Thus, while torque decreases due to large reduction in rotor layering thickness is suppressed, a small-size, lightweight and low-priced compressor motor is provided.

IPC 8 full level
H02K 1/27 (2006.01); **F04B 39/00** (2006.01); **H02K 21/14** (2006.01)

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F04B 35/04 (2013.01 - EP KR US); **F04C 18/322** (2013.01 - EP KR US); **F04C 23/008** (2013.01 - EP KR US);
F04C 29/0085 (2013.01 - EP KR US); **H02K 1/276** (2013.01 - EP KR US)

Citation (search report)
• [I] US 2004256940 A1 20041223 - TSURUTA TOSHIFUMI [JP], et al
• See references of WO 2008044684A1

Cited by
EP3309939A4; US10900696B2

Designated contracting state (EPC)
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